

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P510178

Luminaire Tested: **VERD-M-CA4-220-730-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-220-730-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 1000mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31544 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

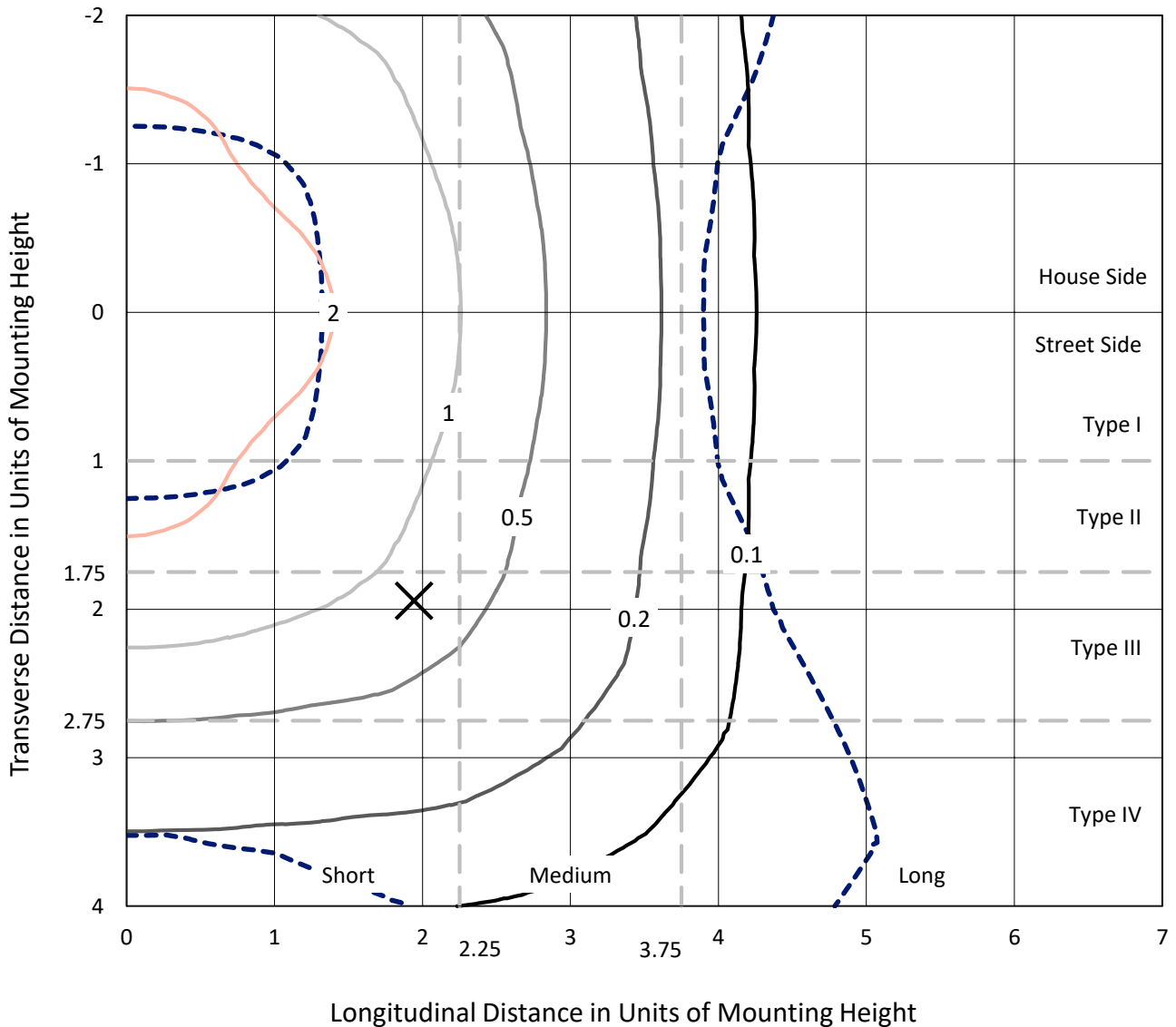
Input Watts (W): 222.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510178
 CATALOG NUMBER: VERD-M-CA4-220-730-U-T5

Iso-Footcandle Lines of Horizontal Illumination

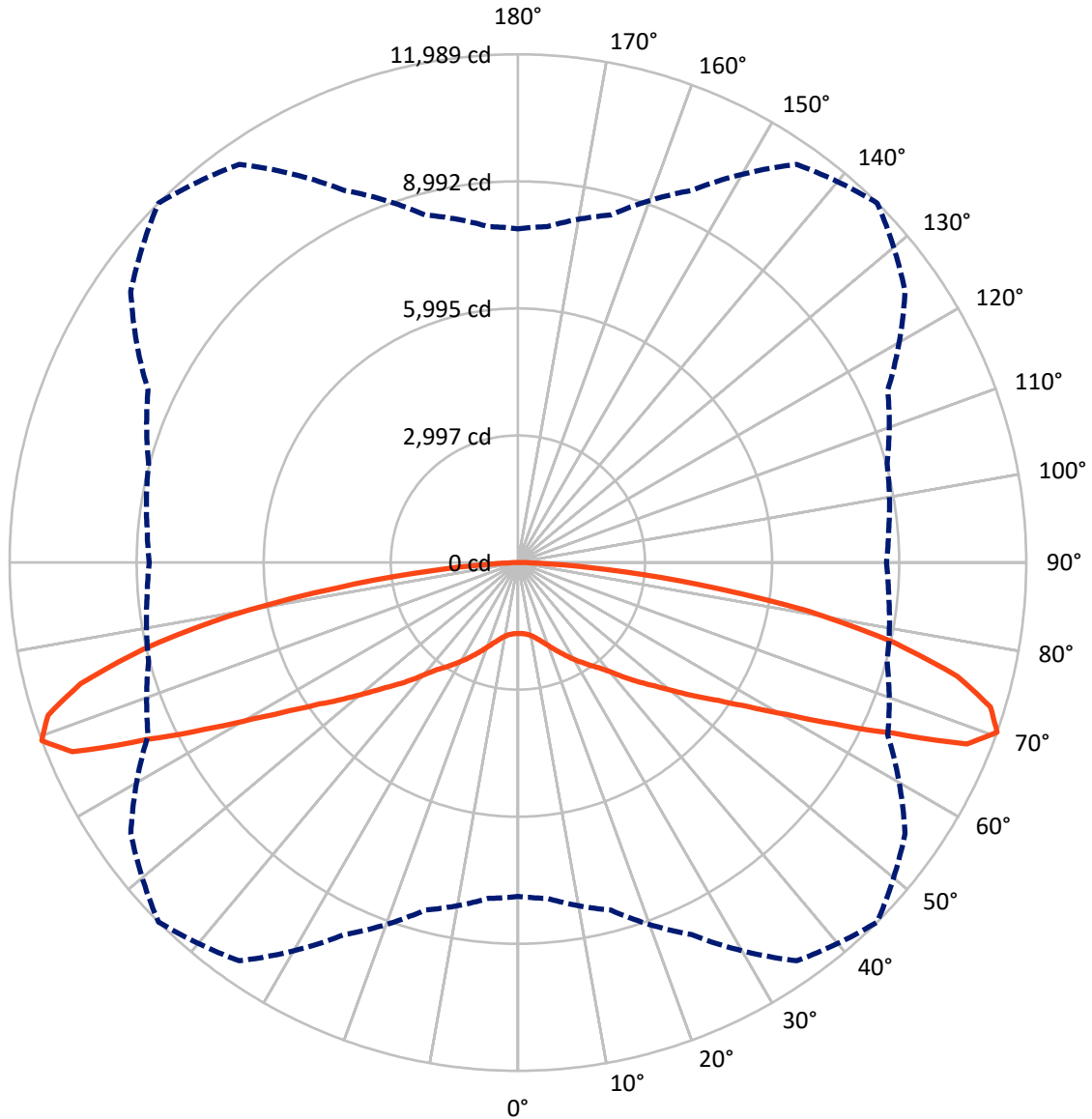
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

REPORT NUMBER: P510178
CATALOG NUMBER: VERD-M-CA4-220-730-U-T5

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P510178

CATALOG NUMBER: VERD-M-CA4-220-730-U-T5

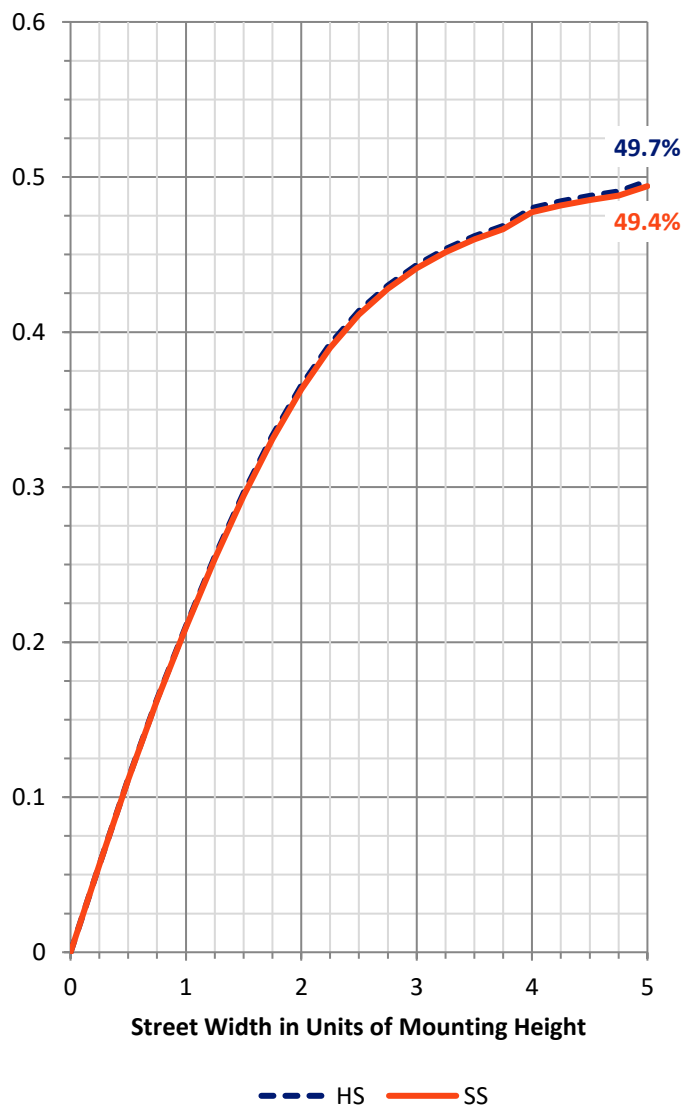
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15772.0	0.0	15772.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15772.0	0.0	15772.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31544.0	0.0	31544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	0.5
10°-20°	543.1	1.7
20°-30°	1086.2	3.4
30°-40°	1889.9	6.0
40°-50°	3288.0	10.4
50°-60°	5724.7	18.1
60°-70°	9271.6	29.4
70°-80°	7954.1	25.2
80°-90°	1622.4	5.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	31544.0	100.0
0°-180°	31544.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510178

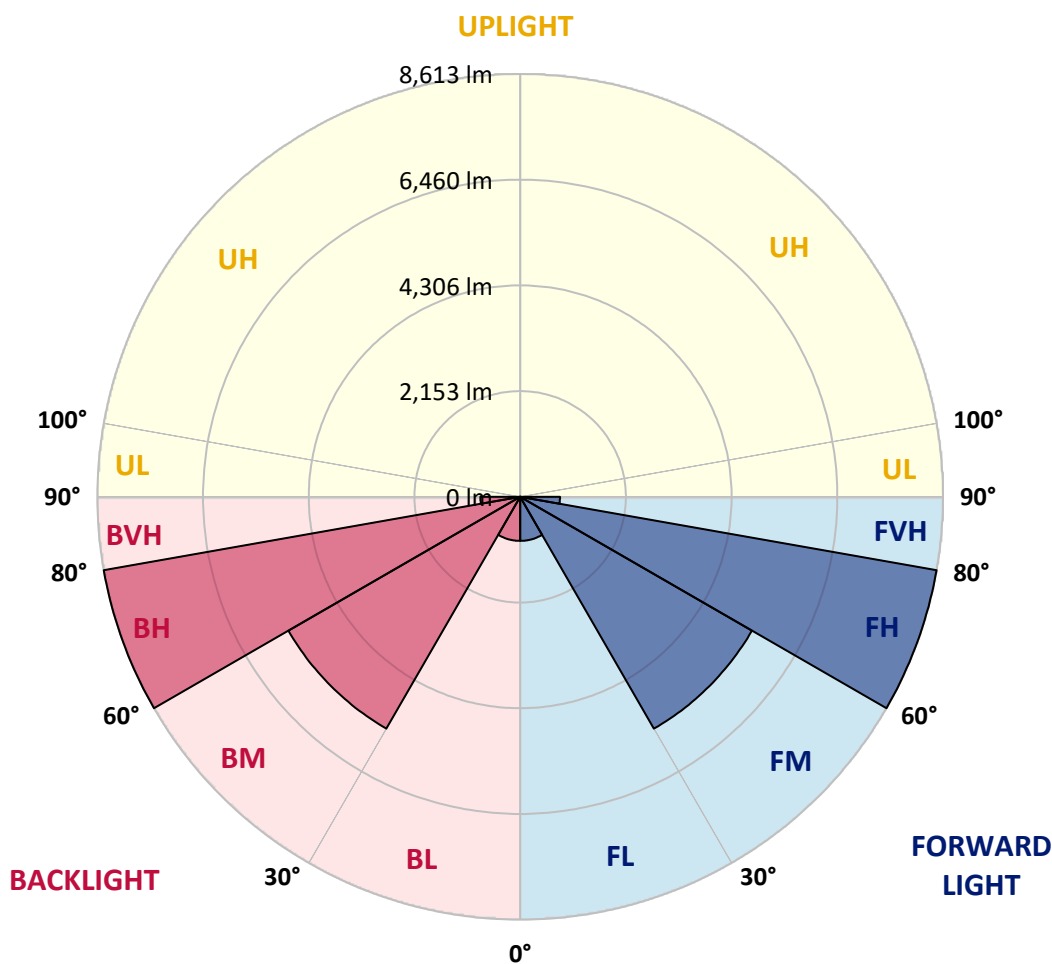
CATALOG NUMBER: VERD-M-CA4-220-730-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	896.7	2.8			
FM	(30°-60°)	5451.3	17.3			
FH	(60°-80°)	8612.9	27.3			G4/12000
FVH	(80°-90°)	811.2	2.6			G5
BL	(0°-30°)	896.7	2.8	B2/1000		
BM	(30°-60°)	5451.3	17.3	B4/8500		
BH	(60°-80°)	8612.9	27.3	B5		G4/12000
BVH	(80°-90°)	811.2	2.6			G5
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





REPORT NUMBER: P510178

CATALOG NUMBER: VERD-M-CA4-220-730-U-T5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8	1677.8
2.5°	1672.2	1681.9	1680.5	1677.8	1673.6	1673.6	1676.4	1686.1	1687.5	1687.5	1687.5
5°	1691.6	1701.3	1699.9	1697.1	1693.0	1691.6	1694.4	1704.1	1705.5	1705.5	1706.8
7.5°	1713.8	1724.8	1724.8	1723.4	1713.8	1713.8	1716.5	1729.0	1729.0	1731.8	1734.5
10°	1751.1	1763.6	1767.7	1762.2	1756.7	1753.9	1756.7	1769.1	1767.7	1765.0	1766.4
12.5°	1802.4	1814.8	1824.5	1823.1	1817.6	1814.8	1817.6	1824.5	1816.2	1805.1	1805.1
15°	1866.0	1882.6	1893.7	1893.7	1900.6	1896.5	1892.3	1893.7	1881.3	1871.6	1871.6
17.5°	1947.7	1961.5	1971.2	1979.5	1990.6	1990.6	1980.9	1978.2	1961.5	1953.2	1954.6
20°	2047.4	2058.4	2072.3	2079.2	2101.4	2102.7	2086.1	2079.2	2062.6	2051.5	2054.3
22.5°	2155.4	2174.7	2180.3	2201.0	2227.3	2228.7	2206.6	2191.3	2174.7	2166.4	2167.8
25°	2285.5	2304.9	2300.7	2318.7	2358.8	2363.0	2338.1	2315.9	2302.1	2293.8	2296.5
27.5°	2428.1	2447.4	2446.1	2446.1	2493.1	2511.1	2476.5	2453.0	2455.7	2440.5	2446.1
30°	2580.3	2596.9	2606.6	2590.0	2635.7	2664.8	2609.4	2612.2	2610.8	2601.1	2599.7
32.5°	2758.9	2774.1	2772.7	2761.7	2775.5	2817.0	2772.7	2786.6	2790.7	2792.1	2803.2
35°	2962.4	2980.4	2961.0	2945.8	2947.2	2987.3	2954.1	2976.2	2998.4	3006.7	3006.7
37.5°	3179.7	3189.4	3168.7	3145.1	3139.6	3161.7	3156.2	3192.2	3229.6	3250.3	3261.4
40°	3460.7	3469.0	3428.9	3383.2	3374.9	3399.8	3406.8	3485.7	3542.4	3581.2	3588.1
42.5°	3851.1	3849.7	3793.0	3708.5	3668.4	3707.1	3757.0	3848.3	3943.9	3952.2	3981.2
45°	4353.6	4334.2	4260.9	4134.9	4033.8	4020.0	4079.5	4215.2	4321.8	4367.5	4385.5
47.5°	4926.7	4904.6	4771.7	4576.5	4403.4	4349.5	4399.3	4569.6	4728.8	4795.2	4831.2
50°	5566.3	5540.0	5405.7	5141.3	4853.3	4755.1	4785.5	4997.3	5182.8	5267.2	5330.9
52.5°	6254.3	6250.1	6078.4	5773.9	5389.1	5229.9	5220.2	5474.9	5724.1	5836.2	5870.8
55°	6992.1	6971.3	6817.7	6486.8	6041.1	5743.4	5744.8	6027.2	6331.8	6478.5	6495.1
57.5°	7716.1	7707.8	7537.5	7255.1	6799.7	6407.9	6369.1	6744.3	7051.6	7172.0	7177.6
60°	8399.9	8426.2	8337.6	8078.8	7711.9	7268.9	7212.2	7529.2	7790.8	7894.6	7932.0
62.5°	9161.3	9169.6	9158.5	8967.5	8687.8	8388.8	8249.0	8411.0	8669.9	8755.7	8737.7
65°	9705.3	9759.3	9885.3	9983.5	9924.0	9695.6	9511.5	9519.8	9571.0	9515.7	9511.5
67.5°	9011.8	9129.4	9558.6	10249.3	11063.3	11419.1	10671.5	9836.8	9526.7	9326.0	9324.6
70°	7873.9	7952.8	8488.5	9683.2	11466.1	11989.4	11146.4	9623.6	9015.9	8777.8	8693.4
72.5°	6698.6	6760.9	7350.6	8570.2	10826.6	11653.0	10843.2	8997.9	8197.8	7673.2	7682.8
75°	5578.7	5569.0	6014.8	7267.6	9583.5	10702.0	10040.3	8008.2	6868.9	6391.3	6337.3
77.5°	3867.7	3956.3	4463.0	5743.4	7770.1	9056.1	8959.2	6592.0	5264.5	4755.1	4788.3
80°	2026.6	2082.0	2682.8	3899.6	5685.3	6946.4	6819.0	4662.3	3401.2	2837.8	2731.2
82.5°	844.4	880.4	1226.5	2106.9	3474.6	4323.2	4265.0	2842.0	1896.5	1320.6	1317.9
85°	358.5	359.9	520.5	902.6	1753.9	2054.3	1648.7	1220.9	664.5	416.7	372.4
87.5°	152.3	157.8	211.8	413.9	555.1	448.5	264.4	163.3	109.4	66.4	51.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)